## IN THE CLAIMS

Please add the following new claims 13-20:

	<i>A</i> .
	13. A method for limiting transmit power of a radio operating in a
2	radio communications system, the radio communications system comprising
	a plurality of base stations that transmit power control commands to the
4	radio, the radio comprising a variable gain amplifier and a maximum gair
	setting, the method comprising the steps of:

receiving a signal from at least one of the plurality of base stations; generating a received power level signal in response to the received signal;

generating a closed loop power control signal in response to the received signal;

combining the received power level signal and the closed loop power control signal to produce a summation signal;

comparing the summation signal to the maximum gain setting;

adjusting the variable gain amplifier in response to the maximum gain setting if the summation signal is greater than or equal to the maximum gain setting; and

adjusting the variable gain amplifier in response to the summation signal if the summation signal is less than the maximum gain setting. --

-- 14. The method of claim 13 further including the step of adjusting the maximum gain setting in response to a temperature of the variable gain amplifier. --

--25. A method for limiting transmit power of a radio operating in a cellular environment, the cellular environment comprising a plurality of cells that transmit power control commands to the radio, the radio comprising a variable gain amplifier, a maximum gain setting, and a power limiting accumulator, the method comprising the steps of:

6 receiving a signal from at least one of the plurality of cells; generating a received power level signal in response to the received 8 signal;

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generating a closed loop power control signal in response to the 10 received signal;

digitizing the received power level signal;

- 12 comparing the digitized received power level signal to the maximum gain setting;
- decreasing the gain of the variable gain amplifier if the digitized received power level signal is greater than the maximum gain setting; and
- prohibiting the closed loop power control signal from changing in response to the power control commands if the digitized received power level signal is greater than the maximum gain setting. --
  - -- 16. A method for limiting transmit power of a radio operating in a cellular environment, the cellular environment comprising a plurality of cells that transmit power control commands to the radio, the radio comprising a variable gain amplifier, a maximum gain setting, and a power control command accumulator, the method comprising the steps of:

receiving a signal from at least one of the plurality of cells;

generating a received power level signal in response to the received signal;

generating a closed loop power control signal in response to the power control commands;

digitizing the received power level signal;

- comparing the digitized received power level signal to the maximum gain setting;
- decreasing the closed loop power control signal by a predetermined amount for every predetermined unit of time until the closed loop power control signal is less than the maximum gain setting if the digitized received power level signal is greater than the maximum gain setting; and
- varying the gain of the variable gain amplifier in response to the closed loop power control signal if the digitized received power level signal is less than or equal to the maximum gain setting. --
  - -- 17. A method for limiting transmit power of a radio operating in a cellular environment, the cellular environment comprising a plurality of

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cells that transmit power control commands to the radio, the radio
comprising a variable gain amplifier, a maximum gain setting, and a power
limiting accumulator, the method comprising the steps of:

receiving a signal from at least one of the plurality of cells;

generating a received power level signal in response to the received signal;

generating a closed loop power control signal in response to the power control commands;

digitizing the received power level signal;

determining a difference between the digitized receive power level signal and the maximum gain setting;

integrating the difference to generate a gain control signal, the gain control signal being limited to a predetermined range;

adjusting the variable gain amplifier with the gain control signal; and prohibiting the closed loop power control signal from changing the variable gain amplifier in response to the power control commands if the gain control signal is less than a predetermined value. --

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-- 18. A radio performing transmit power calibration, operating in a cellular environment comprising a plurality of cells that transmit power control commands to the radio, the radio receiving signals through a variable gain receive amplifier the radio comprising:

a receive power detector, coupled to the receive amplifier, for generating a received power level signal;

a saturating accumulator, coupled to the receive amplifier, for generating a closed loop power control signal in response to the power control commands;

a power limiting circuit, coupled to the receive power detector and the saturating accumulator, for generating a limiting gain control setting in response to the closed loop power control signal and the received power level signal, the limiting gain control setting being within a predetermined range;

a signal combiner, coupled to the receive power detector, the saturating accumulator and the power limiting circuit, for combining the received